

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

04/18/2011

Marisa Tagliareni
Assistant District Attorney, Middlesex County

Dear ADA Tagliareni,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Kate Corbett.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely

A handwritten signature in black ink, appearing to read "Annie Khan".

Annie Khan (Dookhan)
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

No. [REDACTED] Date Analyzed: 12/24/09
City: [REDACTED] Police Dept.
Officer: [REDACTED] BRYAN MCNAUL

Def: [REDACTED]
Amount: [REDACTED] Sub: SUB
No. Cont: [REDACTED] Cont: ph

Date Rec'd: 03/17/2009 No. Analyzed: 1

Sample Wt: 1.250 Net Wt: 0.10
#Tests: 6/8

* Cocaine

Prelim: Cocaine® findings: Cocaine

No. [REDACTED] Date Analyzed: 12/24/09
City: [REDACTED] Police Dept.
Officer: [REDACTED] BRYAN MCNAUL

Def: [REDACTED]
Amount: [REDACTED] Sub: SUB
No. Cont: 21 Cont: ph

Date Rec'd: 03/17/2009 No. Analyzed: 3

Sample Wt: 0.710 Net Wt: 2.65
#Tests: 18/8

* Cocaine

Prelim: Cocaine® findings: Cocaine

DRUG POWDER ANALYSIS FORM

No. of samples tested: _____ Evidence Wt. _____

Evidence Wt. _____

PHYSICAL DESCRIPTION:

Off-white chunky substance
in 21 pbs

Gross Wt (z): 3.7307

Gross Wt (3): 0.6189

Pkg. Wt: _____

Net Wt: _____

PRELIMINARY TESTS

Spot Tests

3 Cobalt Thiocyanate (-) +

3 Marquis —

3 Froehde's —

3 Mecke's —

Microcrystalline Tests

3 Gold Chloride +

OTHER TESTS

PRELIMINARY TEST RESULTS

GC/MS CONFIRMATORY TEST

RESULTS *Continued*

RESULTS

DATE 11-25-05

MS
OPERATOR 1CAC

DATE 12-2-09

Sample #: [REDACTED]

samples tested: _____

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.1836	0.0724	0.1107	26			
2	0.2016	0.0771	0.1245	27			
3	0.2839	0.0893	0.1446	28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

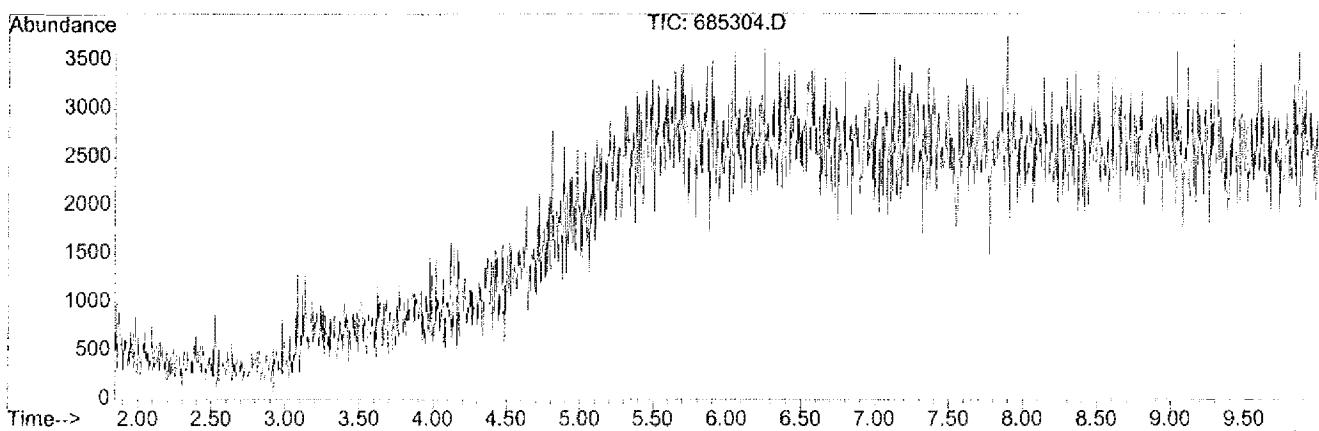
Calculations: Net wt

$$\text{Est Net wt} \quad 0.3798/3 = 0.1266 \quad (2\#)$$
$$= 2.6586$$

✓ KAC
2/24/11

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685304.D
Operator : DJR
Date Acquired : 1 Dec 2009 9:11
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



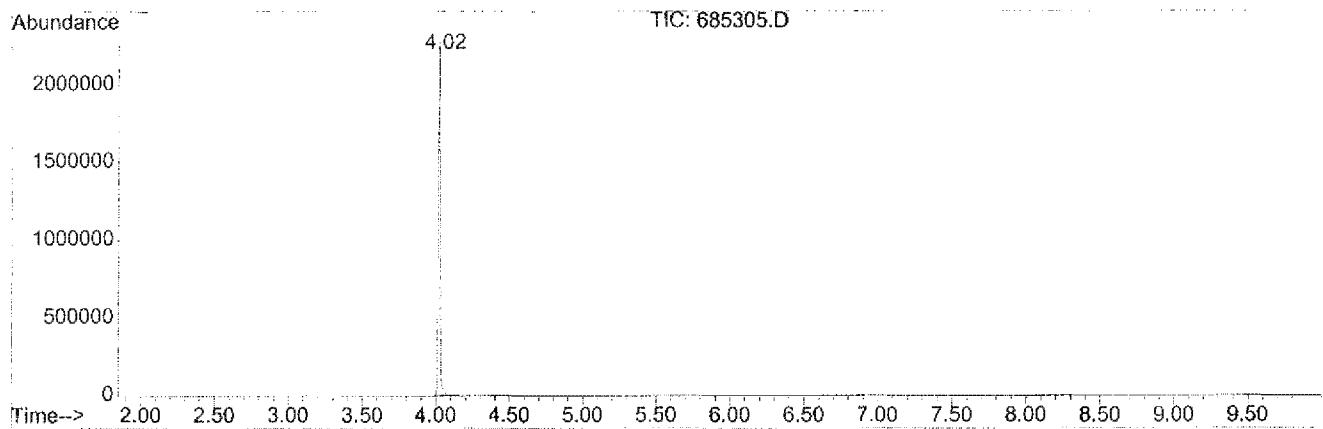
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685305.D
Operator : DJR
Date Acquired : 1 Dec 2009 9:25
Sample Name : COCAINE STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.020	2034757	100.00	100.00

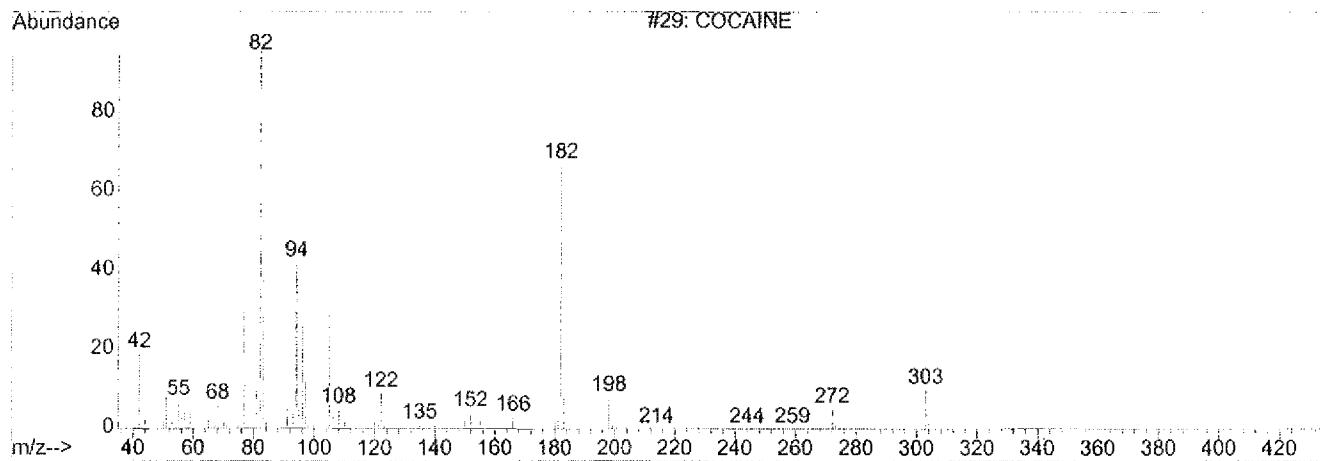
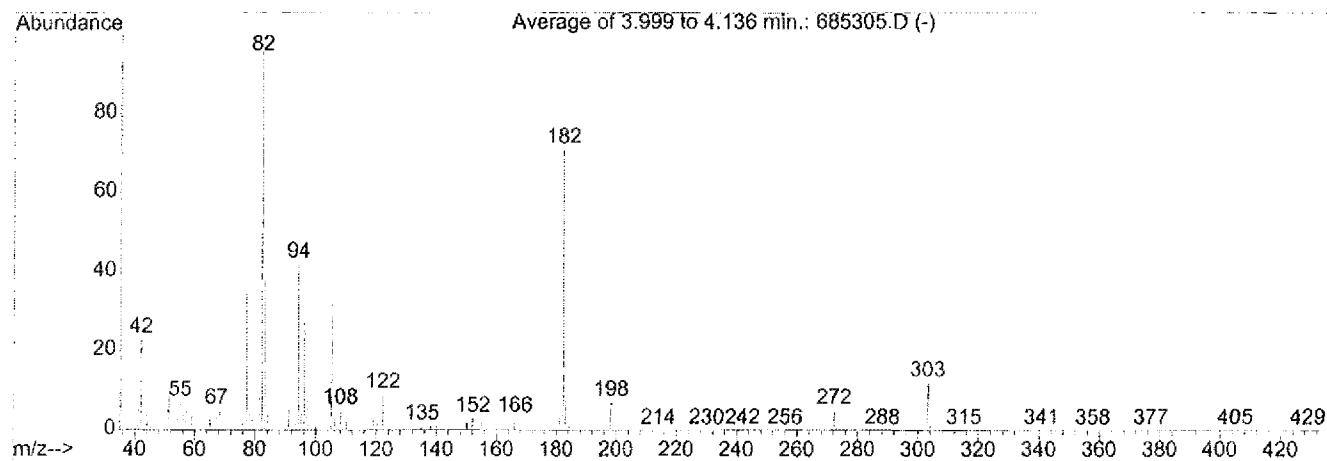
Area Percent / Library Search Report

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File Name : F:\Q4-2009\SYSTEM4\12_01_09\685305.D
Operator : DJR
Date Acquired : 1 Dec 2009 9:25
Sample Name : COCAINE STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

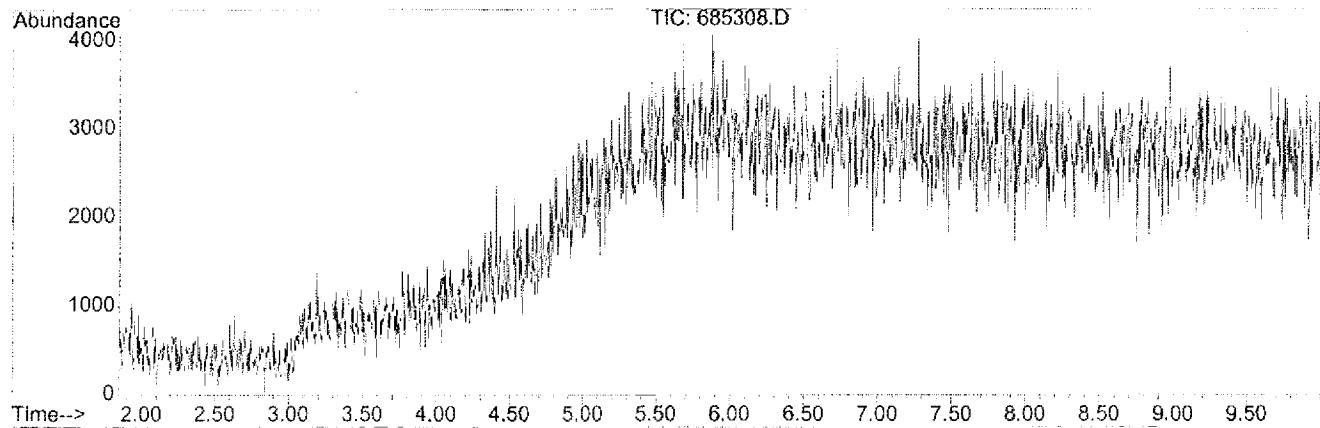
PK#	RT	Library/ID	CAS#	Qual
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Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685308.D
Operator : DJR
Date Acquired : 1 Dec 2009 10:06
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



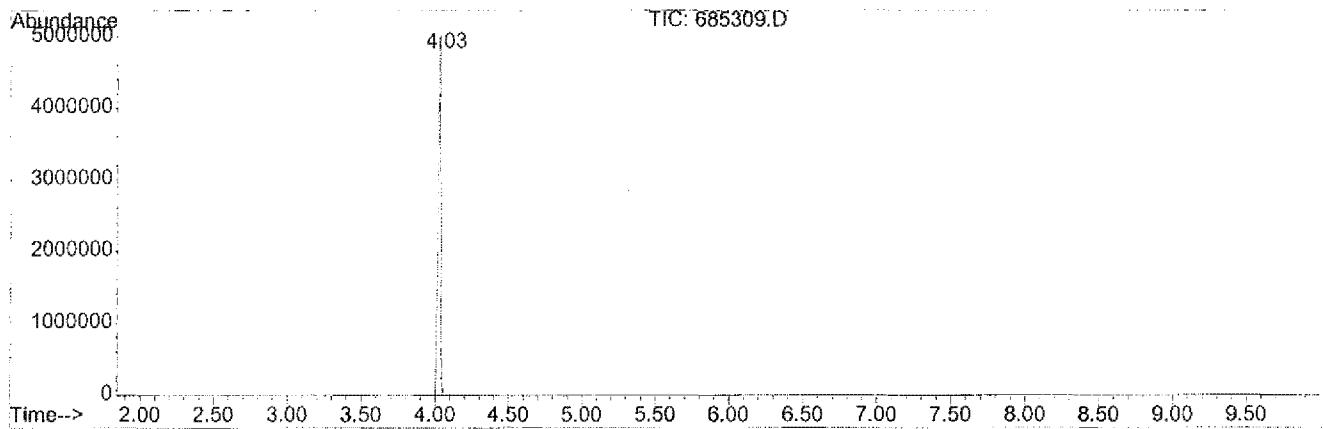
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685309.D
Operator : DJR
Date Acquired : 1 Dec 2009 10:19
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.033	6394032	100.00	100.00

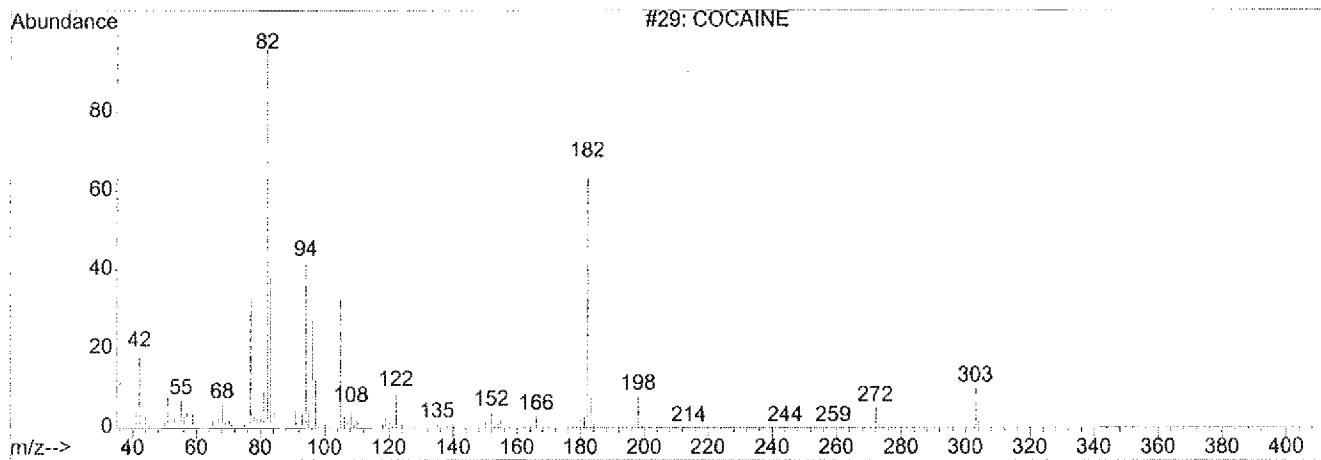
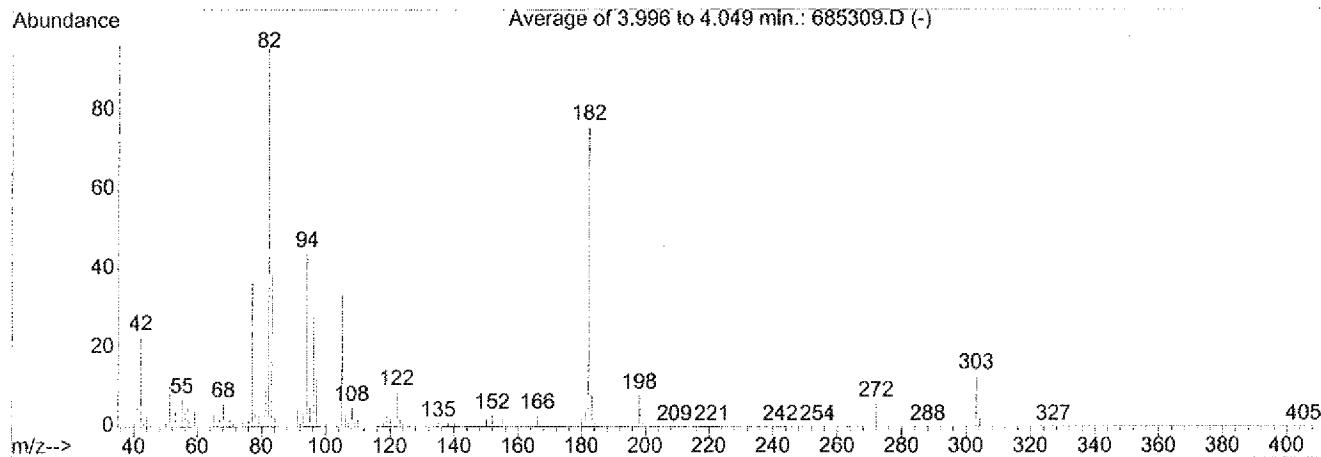
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685309.D
Operator : DJR
Date Acquired : 1 Dec 2009 10:19
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

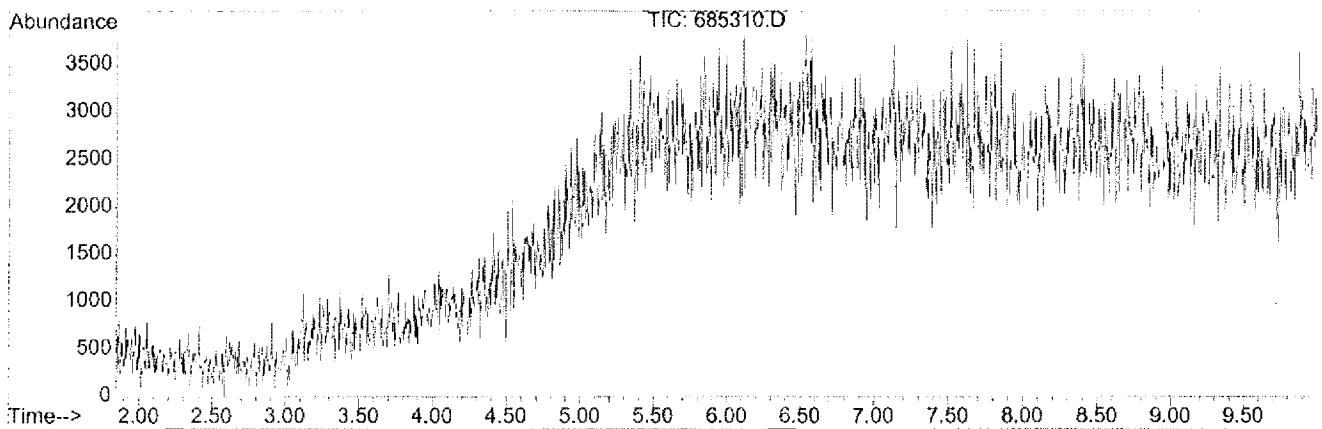
PK#	RT	Library/ID	CAS#	Qual
1	4.03	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685310.D
Operator : DJR
Date Acquired : 1 Dec 2009 10:33
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



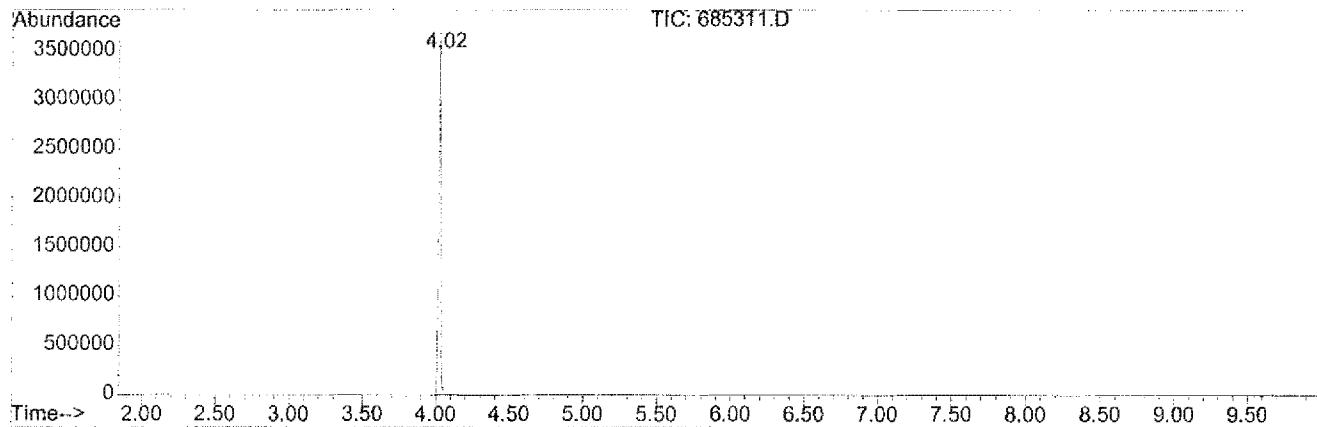
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685311.D
Operator : DJR
Date Acquired : 1 Dec 2009 10:47
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.023	3665971	100.00	100.00

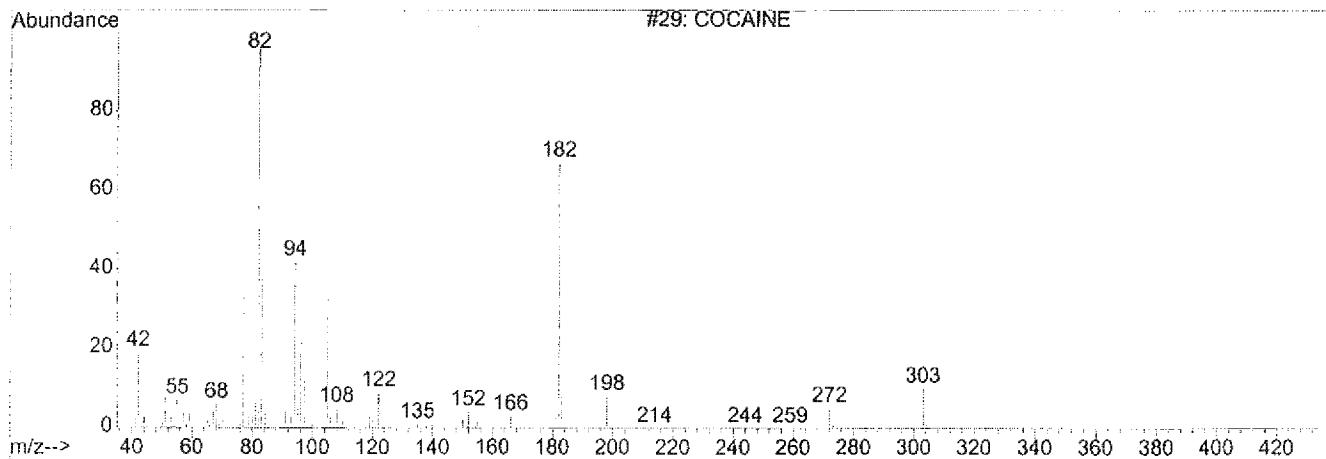
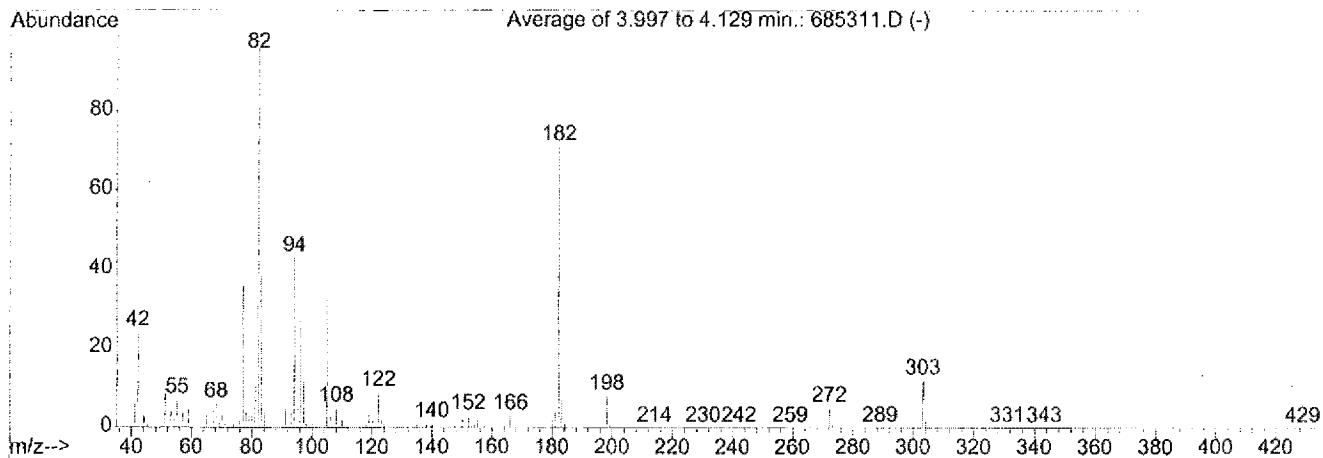
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685311.D
Operator : DJR
Date Acquired : 1 Dec 2009 10:47
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

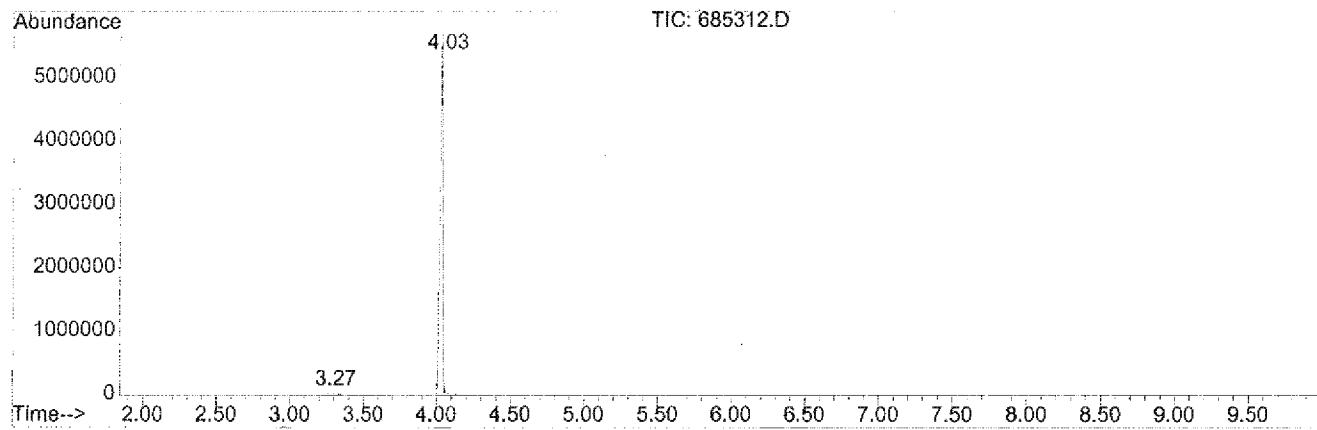
PK#	RT	Library/ID	CAS#	Qual
1	4.02	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685312.D
Operator : DJR
Date Acquired : 1 Dec 2009 11:01
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 12
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.271	151963	2.05	2.10
4.033	7245485	97.95	100.00

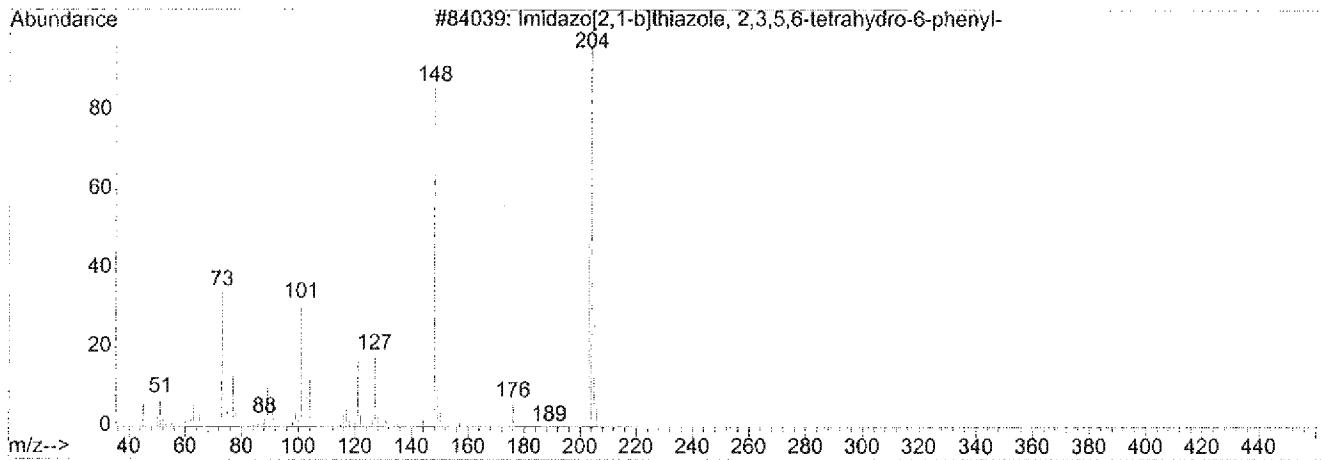
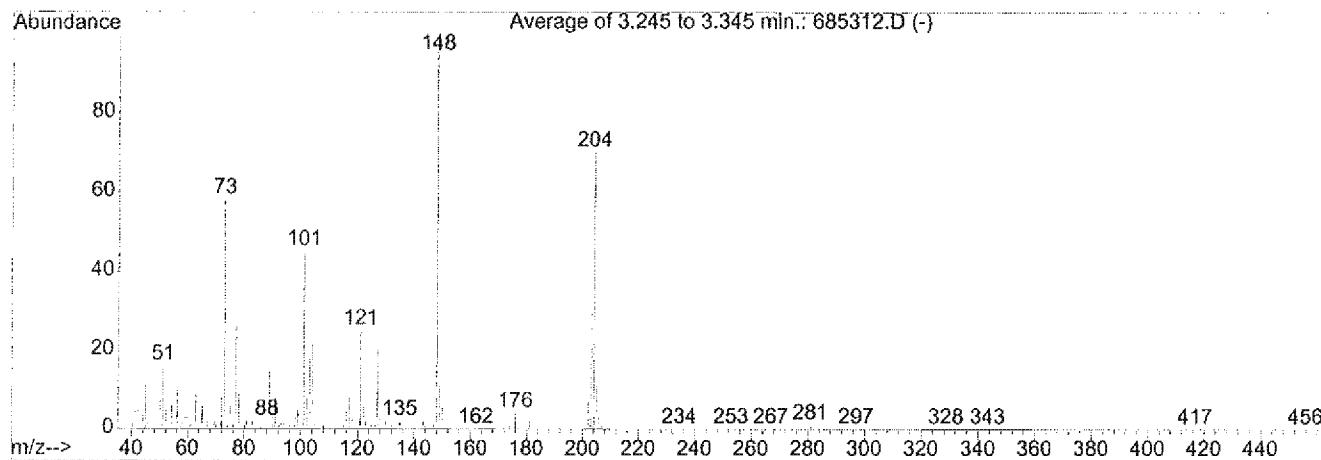
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685312.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 11:01
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	3.27	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	96



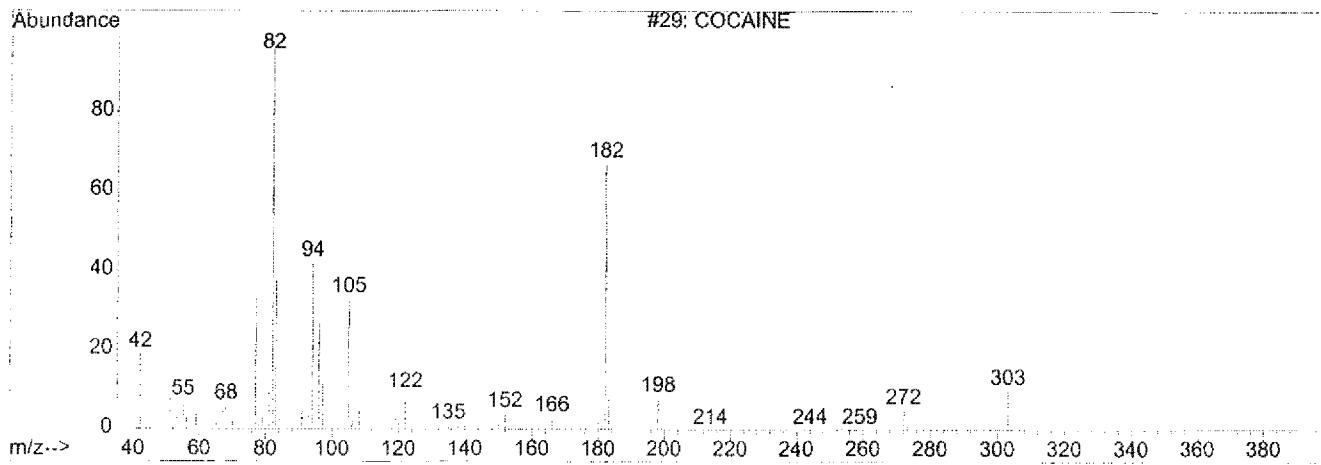
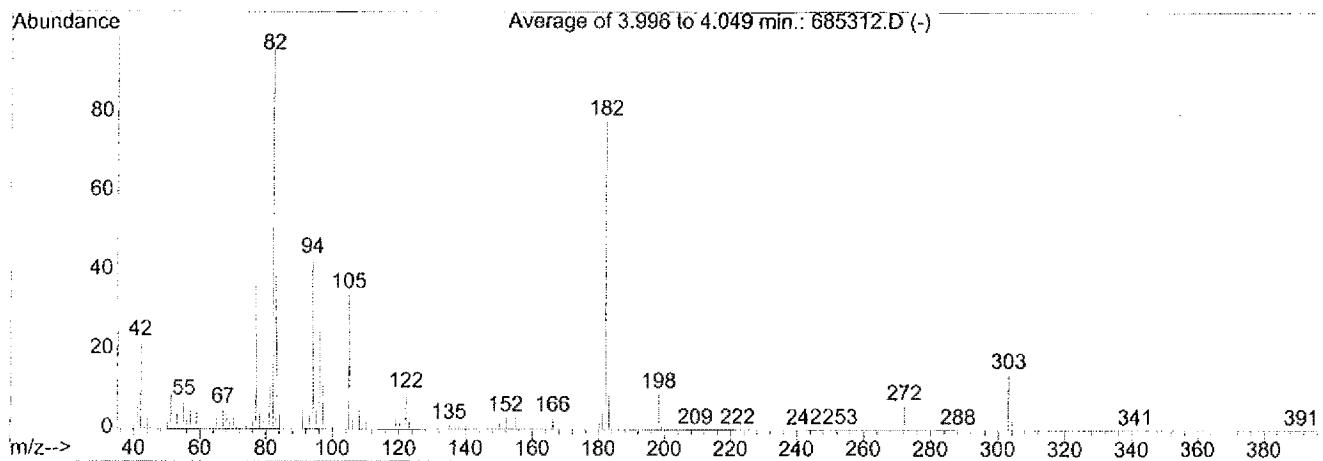
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685312.D
Operator : DJR
Date Acquired : 1 Dec 2009 11:01
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 12
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

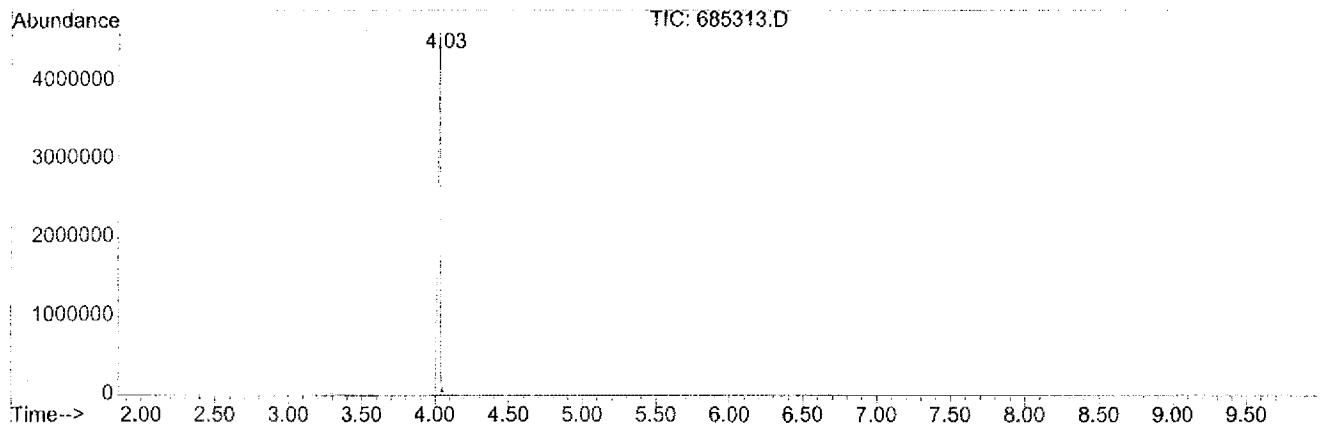
PK#	RT	Library/ID	CAS#	Qual
2	4.03	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685313.D
Operator : DJR
Date Acquired : 1 Dec 2009 11:15
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 13
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.028	5081307	100.00	100.00

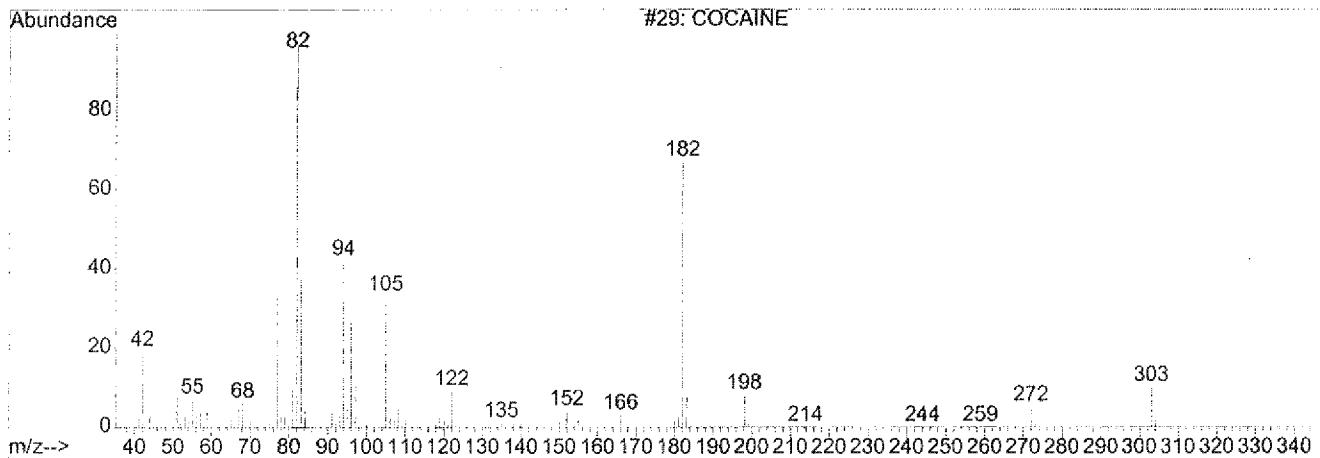
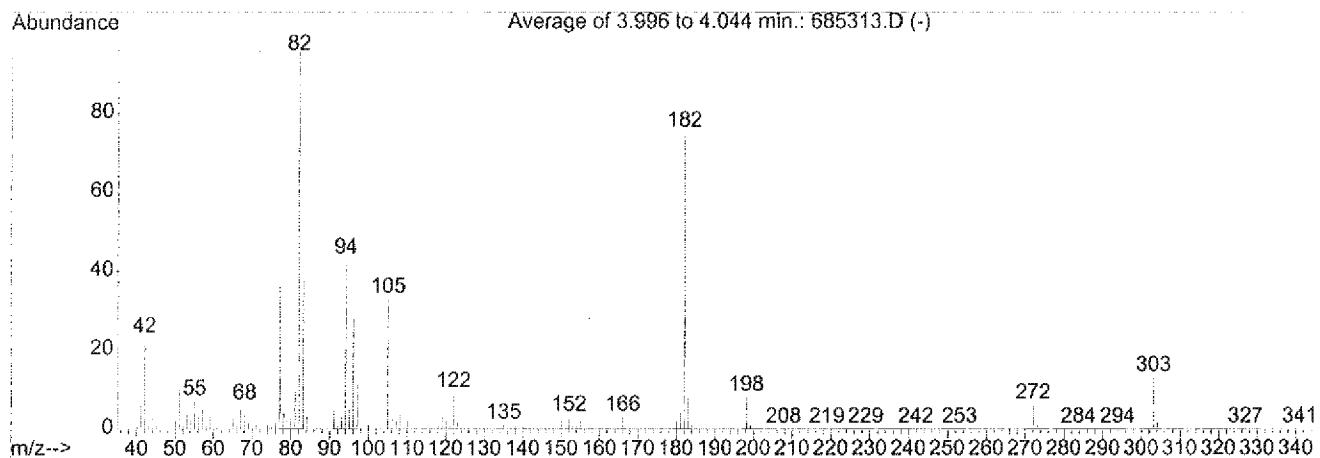
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685313.D
Operator : DJR
Date Acquired : 1 Dec 2009 11:15
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 13
AcquisitionMeth: DRUGS
Integrator : RTE

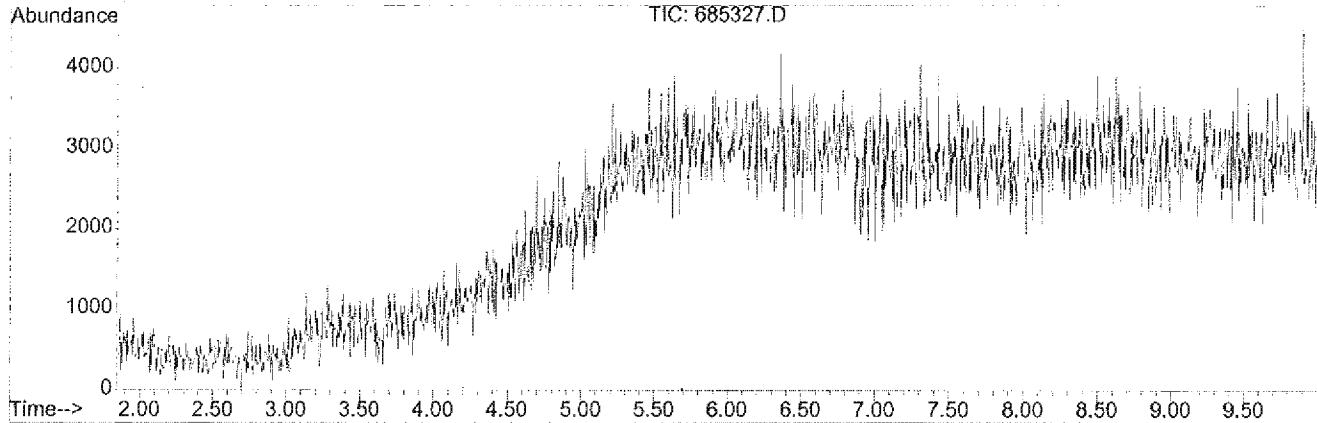
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.03	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685327.D
Operator : DJR
Date Acquired : 1 Dec 2009 14:28
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



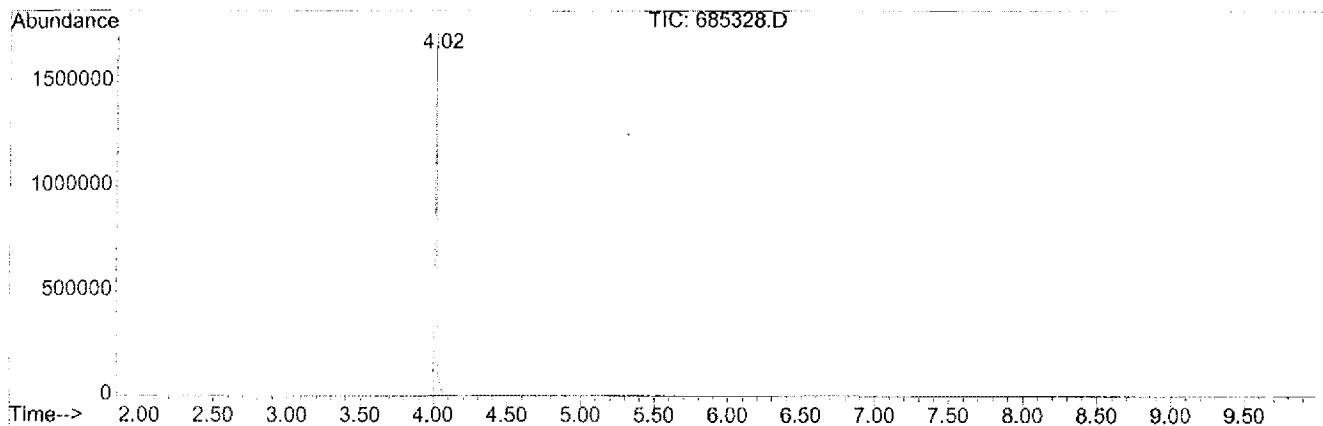
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685328.D
Operator : DJR
Date Acquired : 1 Dec 2009 14:42
Sample Name : COCAINE STD
Submitted by :
Vial Number : 28
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.017	1604635	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM4\12_01_09\685328.D
Operator : DJR
Date Acquired : 1 Dec 2009 14:42
Sample Name : COCAINE STD
Submitted by :
Vial Number : 28
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.02	C:\DATABASE\SLI.L COCAINE	000050-36-2	99

